

[Title of Document]      Abstract

The invention provides a mechanical press apparatus for both single and double uses which can press mold a large-sized blank at a high pressure by employing a single action use aspect while being of a double action type. In a mechanical press apparatus provided with a drive portion (14) which moves upward and downward an outer slide (8) and an inner slide (9) arranged in an inner side of the outer slide at a predetermined timing, an elevating plate (10) is fixed to a lower end surface of the outer slide (8) so as to oppose to a lower surface of the inner slide (9), and the lower surface is provided with an upper die (7) and a lower die (3) positioned at a lower surface thereof so as to press. Further, an upper surface portion of the elevating plate (10) is provided with a first hydraulic cylinder (11) contracted by a pressing force at a time when the inner slide (9) moves downward. Further, a second hydraulic cylinder (12) is provided between the outer slide (8) and the drive portion (14) so as to be expanded working with a pressure of a pressurized fluid supplied from the first hydraulic cylinder (11) at a time when the first hydraulic cylinder (11) is contracted by the pressing force of the inner slide (9), thereby pressing the outer slide (8) to a lower side.